CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-10-30-05** **Date: 31-10-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-10-17
Sample ID No	:	2017-10-30-05/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	30-10-17

Test Results

Sl.no	Name of Test	Result	Requirements as per
1	Penetration at 25°C , in 1/10th mm	66.8	60 to 70
2	Softening Point, °C	49.2	Min. 40°C
3	Ductility, cm	95	Min. 75cm
4	Flash point, °C	235	Min. 220°C
	Fire point, °C	243	

Note:

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-10-30-05** **Date: 31-10-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-10-17
Sample ID No	:	2017-10-30-05/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	30-10-17
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	305	305	2.8	97.2	95-100
22.4	3122	3427	31.2	68.8	60-80
11.2	2543	5970	54.3	45.7	40-60
4.75	2143	8113	73.8	26.2	25-40
2.36	1087	9200	83.6	16.4	15-30
0.6	810	10010	91.0	9.0	8-22
0.075	790	10800	98.2	1.8	0-5

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-10-30-05** **Date: 31-10-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-10-17
Sample ID No	:	2017-10-30-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	30-10-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	297.8	297.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.5	68.4
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	227.8	228.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.6
5	Aggregate impact value	(B/A)*100	23.3	23.0
6	Aggregate impact value (Mean of two tests)	Pecentage	23.2	

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Page 1/1
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-10-30-05** **Date: 31-10-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-10-17
Sample ID No	:	2017-10-30-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	30-10-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.9%	
Combined Flakiness and Elongation Index for WMM	25.4%	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2017-11-06-02 **Date: 08-11-17**

Customer : Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.

Address : Yelahanka New Town Sub division, BBMP, Bangalore.

Project Name : Improvement to drain and providing asphalting to 4th B cross road in Ward no.04

Agency : Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.

Customer Reference : EE(YNK.D)E-PMT-09/WO/79/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 06-11-17

Sample ID No : 2017-11-06-02/01

Type of Mix : DBM-Plant (Dense Bituminous Macadam)

Date of test : 06-11-17

Weight of Sample : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	172	172	3.44	96.56	90-100
19	878	1050	21.00	79.00	71-95
13.2	995	2045	40.90	59.10	56-80
4.75	1004	3049	60.98	39.02	38-54
2.36	500	3549	70.98	29.02	28-42
0.3	1033	4582	91.64	8.36	7-21
0.075	198	4780	95.60	4.40	2-8
PAN	220	5000	0.00	0	0

Note:-

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Certificate No.: TC-5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2017-11-06-02** **Date: 09-11-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-17
Sample ID No	:	2017-11-06-02/01
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of test	:	06-11-17

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.5	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	10.5		
Strength	Aggregate Impact Value	21.5	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.57	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.28	Maximum 2%	IS:2386 Part III

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-11-06-02** **Date: 09-11-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-17
Sample ID No	:	2017-11-06-02/01
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of test	:	06-11-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-11-06-02** **Date: 09-11-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	06-11-17
Sample ID No	:	2017-11-06-02/01
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of test	:	06-11-17

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.52	11.58	9KN(Min)
2	Marshal flow at 60°C, mm	3.58	3.52	2-4
3	Percent air Voids	4.51	4.29	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.87	14.64	13-15
5	Percent Voids filled with Bitumen(VFB %)	69.58	67.98	65-75
6	Density, g/cc	2.41	2.42	–

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-11-16-01**	**Date: 17-11-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.	
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.	
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04	
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.	
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	16-11-17	
Sample ID No	:	2017-11-16-01/01	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of test	:	16-11-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	502	502
2	Weight of the sample After extraction	B	478	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.78	4.98
4	Average percentage	%	4.9	

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Lab ID : CP-RW-2017-11-16-01
Sample ID No : 2017-11-16-01/01
Date: 17-11-17

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 478

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	6	6	1.26	98.7	90-100
19	45	51	10.67	89.3	71-95
13.2	90	141	29.50	70.5	56-80
4.75	135	276	57.74	42.3	38-54
2.36	55	331	69.25	30.8	28-42
0.3	92	423	88.49	11.5	7-21
0.075	40	463	96.86	3.1	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	3	3	0.63	99.4	90-100
19	55	58	12.16	87.8	71-95
13.2	101	159	33.33	66.7	56-80
4.75	99	258	54.09	45.9	38-54
2.36	81	339	71.07	28.9	28-42
0.3	75	414	86.79	13.2	7-21
0.075	46	460	96.44	3.6	2-8

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-11-09-04** **Date: 11-11-17**
Customer	:	Assistant Executive Engineer,Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-17
Sample ID No	:	2017-11-09-04/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	09-11-17
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	81	81	1.6	98.4	90-100
9.5	712	793	15.9	84.1	70-88
4.75	897	1690	33.8	66.2	53-71
2.36	588	2278	45.6	54.4	42-58
1.18	484	2762	55.2	44.8	34-48
0.6	513	3275	65.5	34.5	26-38
0.3	521	3796	75.9	24.1	18-28
0.15	452	4248	85.0	15.0	12-20
0.075	359	4607	92.1	7.9	4-10
PAN	393	5000	100	0.0	0

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬ.ಬ.ಪ. ಬೆಂಗಳೂರು-106

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-11-09-04** **Date: 11-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-17
Sample ID No	:	2017-11-09-04/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	09-11-17

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.3	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.1		
Strength	Aggregate Impact Value	22.4	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	1.65	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.22	Maximum 2%	IS:2386 Part III

Note:

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-11-09-04** **Date: 11-11-17**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-17
Sample ID No	:	2017-11-09-04/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	09-11-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.5	1.5		

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2017-11-18-01
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub division, BBMP, Bangalore.
Project Name	:	Improvement to drain and providing asphalting to 4th B cross road in Ward no.04
Agency	:	Sri. H.S. Palakshamurthy, No.1, 2nd Main B. D. A Layout, Pattegare, Palaya, Near Prashanthnagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-09/WO/79/2017-18
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	18-11-17
Sample ID No	:	2017-11-18-01/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	18-11-17

Date: 20-11-17

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	501
2	Weight of the sample After extraction	B	477	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.60	4.99
4	Average percentage	%	4.8	

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Lab ID : CP-RW-2017-11-18-01

Sample ID : 2017-11-18-01/01

Date: 20-11-17

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 477

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	67	74	15.5	84.5	70-88
4.75	118	192	40.3	59.7	53-71
2.36	81	273	57.2	42.8	42-58
1.18	34	307	64.4	35.6	34-48
0.6	14	321	67.3	32.7	26-38
0.3	51	372	78.0	22.0	18-28
0.15	49	421	88.3	11.7	12-20
0.075	35	456	95.6	4.4	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	9	9	1.9	98.1	90-100
9.5	62	71	14.9	85.1	70-88
4.75	102	173	36.3	63.7	53-71
2.36	76	249	52.3	47.7	42-58
1.18	39	288	60.5	39.5	34-48
0.6	19	307	64.5	35.5	26-38
0.3	46	353	74.2	25.8	18-28
0.15	42	395	83.0	17.0	12-20
0.075	53	448	94.1	5.9	4-10

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